

REMARKS

Applicant has amended claim 1. Claims 27 and 28 are new. Claims 8-20 and 23-25 were previously withdrawn. Claims 1-7, 21, 22, and 26-28 are presented for further examination. Favorable reconsideration is respectfully requested.

Specification

The Examiner has objected to the title. According to the Examiner, “[t]he title of the invention is not descriptive” and “[a] new title is required that is clearly indicative of the invention to which the claims are directed.” (See Office Action of August 10, 2007 at page 2). As shown above, the Applicant has amended the title in accordance with the suggested title provided by the Examiner.

Claim Rejections

Claims 1-7, 21, 22 and 26 were rejected over U.S. Patent No. 6,091,355 (Cadotte). As shown above, Applicant has amended independent claim 1 to recite that “at least one passive circuit component of the mixer or the resonant circuit of the oscillator is at least partially integrated in one or more of the metallized internal surfaces of the substrate.” In view of these amendments, withdrawal of the art rejections is respectfully requested.

Cadotte describes a radar unit (i.e., “A DOPPLER RADAR SPEED MEASURING UNIT”) that includes a multilayer printed circuit board with four layers of copper pattern (24, 30, 4, 7 and 6) separated by substrate layers (2, 8, 5). (See, e.g., Cadotte at col. 5, lines 15-17; see

also FIG. 1). As the Examiner has pointed out, the electronic circuitry on one side of the board 1 contains, *inter alia*, a microwave oscillator 13 (including a dielectric resonator 17), and a mixer 25 connected to the pattern 6 as shown in FIG. 4. (See, e.g., id. at col. 6, lines 29-41; see also FIG. 4). However, Cadotte still fails to describe or suggest “a radar transceiver … wherein at least one passive component of the mixer or the resonant circuit of the oscillator is at least partially integrated in one or more of the metallized internal surfaces of the substrate.” Rather, according to Cadotte, “[t]he electronic components … are mounted to this [outer] layer or circuit pattern 6 using surface mount technology.” (See, e.g., id. at col. 5, lines 34-38; emphasis added). And, according to Cadotte, the inner copper layers (4, 7) of the board (1) serve as ground planes and are mostly un-etched except for holes (11) for accommodating vias which electrically connect the outer copper layers (6 and 24, 30). (See, e.g., id. at col. 5, lines 24-52).

This is not merely a trivial distinction. By using at least one metallization layer internal to the substrate (i.e., between two dielectric layers) for forming passive circuit components (e.g., of the resonant circuit of the oscillator or of the mixer), as in the claimed configuration, a compact transceiver device can be achieved, the passive components of which requiring at most only a minimum area on top of the substrate. Accordingly, claim 1 is believed to be patentable.

Each of the dependent claims is believed to define patentable features of the invention. Each dependent claim partakes of the novelty of its corresponding independent claim, in light of the foregoing amendments, and, as such, has not been discussed specifically herein.

It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or

concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

In view of the foregoing amendments and remarks, Applicant respectfully submits that the application is in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Please charge any additional fees, not already covered by check, or credit any overpayment, to deposit account 06-1050, referencing Attorney Docket No. 14219-090US1.

Respectfully submitted,

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